	Application No.	Applicant(s)
	10/534,120	LINEMANN ET AL.
Notice of Allowability	Examiner	Art Unit
	Lina Siu Chai	1712
	Ling-Siu Choi	1713
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to <u>05/26/2006</u> .		
2. The allowed claim(s) is/are <u>1 and 3-11</u> .		
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d)	or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:		
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.	
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Applicati	on No
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.	
(a)  including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w ( PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s)	E E Nation (C)	(
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application (PTO-152)
	Paper No	Summary (PTO-413), ./Mail Date
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ⊠ Examiner's	s Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
o. Slological Material	9. ⊠ Other <u>Sup</u> j	plemental Office Action

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	Application No.	Applicant(s)	
Supplemental	10/534,120	LINEMANN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 6(a). In no event, however, may a reply b ill apply and will expire SIX (6) MONTHS f cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	=		
2a) This action is <b>FINAL</b> . 2b) This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
closed in accordance with the practice under E	x parte Quayle, 1955 C.D. 11	, 455 O.G. 215.	
Disposition of Claims			
4) Claim(s) is/are pending in the application	١.	·	
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.	olootion roguiroment		
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner			
10) $\boxtimes$ The drawing(s) filed on <u>05 May 2005</u> is/are: a) $\boxtimes$	☑ accepted or b)☐ objected	to by the Examiner.	
Applicant may not request that any objection to the o	rawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	= : :	•	
	ammer. Note the attached Off	ice Action of John PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:			
	1. Certified copies of the priority documents have been received.		
<ul><li>2. Certified copies of the priority documents</li><li>3. Copies of the certified copies of the priori</li></ul>	• •		
application from the International Bureau	•	ived in this National Stage	
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	ived.	
	,		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summ	ary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	5)  Notice of Informa 6)  Other:	al Patent Application (PTO-152)	

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## **DETAILED ACTION**

This Office Action is in response to the Response and Amendment filed May 26,
 Claims 2 and 13 were canceled and claims 1 and 3-12 are now pending.

## Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr.Thomas F. Roland on June 8, 2006.

3. The application has been amended as follows:

In Specification, page 7, between line 6 and line 7, insert the following subtitle:

--BRIEF DESCRIPTION OF THE DRAWING--;

Cancel claim 12 without prejudice.

## Allowable Subject Matter

4. Claims 1 and 3-11 are allowed.

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5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Langstein et al. (US 2002/0086959 A1≅US 6,846,885 B2).

A cationic catalyst system comprising		
Α	an initiator (I)	
В	a catalyst (K)	
С	a cocatalyst (CoK)	
wherein the cocatalyst (CoK) is an agent which releases the polymerization active		
center from its counterion generated by the reaction between the catalyst (K) and the		
initiator (I)		

(summary of claim 1)

A process for the cationic polymerization of C <sub>3-10</sub> monomers in the presence of a		
cat	talyst system comprising	
Α	an initiator (I)	
В	a catalyst (K)	
С	a cocatalyst (CoK)	
cer	erein the cocatalyst (CoK) is an agent which releases the polymerization active nter from its counterion generated by the reaction between the catalyst (K) and the iator (I)	

(summary of claim 10)

Langstein et al. disclose a process to prepare isoolefin copolymer in the presence of zironium halides, hafnium halides, or mixtures thereof and organic nitro compounds in a solvent suitable for cationic polymerization, wherein the solvent is halogenated hydrocarbon or a mixture of halogenated hydrocarbon and non-

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halogenated hydrocarbon; and the organic nitro compound is R-NO<sub>2</sub> with R is  $C_{6-24}$  - cycloaryl (abstract; [0011]-[0012]; claims 1-11). Thus, Langstein et al. do not teach or fairly suggest a cationic catalysis system comprising an <u>initiator (I)</u>, a catalyst (K), and a cocatalyst (CoK), wherein the cocatalyst (CoK) is an agent which releases the polymerization active center from its counterion generated by the reaction between the catalyst (K) and the initiator (I).

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

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...ING-SUI CHOI

.: FIMARY EXAMINER

June 5, 2006

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